SUPERIOR OPTICS. OUTSTANDING PERFORMANCE.

Connect with Canon's Full Line of Network Video Solutions.

MPEG 4

smart shade control

motion detection

image stabilizer

DIGIC NET

40x optical zoom

Canon

Canon: Focused on Leadership

Looking for excellence in Network Video Solutions? You've come to the right source. For over 70 years, Canon's heritage in optics and color management have remained unrivaled. Unlike other manufacturers, Canon's main focus is the optical sciences. We spend significant R&D resources in cultivating growth in the five "imaging engines" – image capturing, electrophotography, inkjet printing, photolithography and displays – and these exciting breakthroughs benefit every Canon product. Our full line of Network Video Solutions is no exception. From the creation of the incomparable Canon lens to Canon's high-accuracy color management system, Canon optics are best-of-breed. The image of perfection.

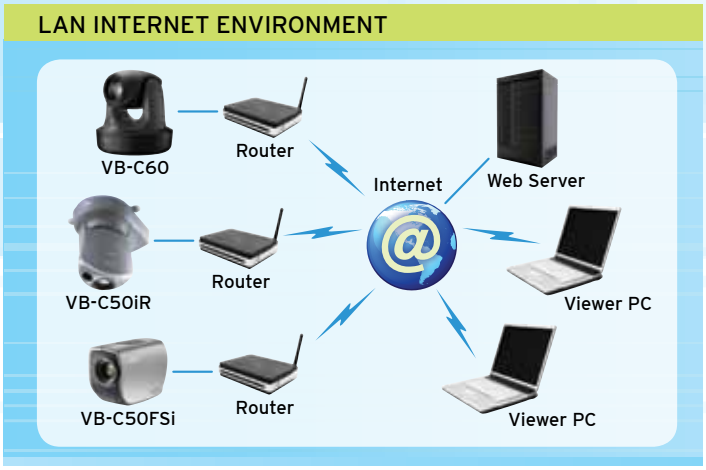
Capability Without Boundaries

Today, the need has never been greater for effective, reliable security. That's a given. And Canon Network Video Solutions certainly answer the call. And yet, these products are so flexible and versatile in performance, their capabilities extend beyond security surveillance and are utilized in a host of industries and purposes, including:

- Remote monitoring for quality assurance at manufacturing and retail locations
- Web-based property observation applications for use by hotel and resort guests
- Distance learning and other video sharing operations
- Traffic reporting for broadcast by TV and municipalities

The possibilities are endless. Wherever there's a need for dependable capture, recording and distribution of video, Canon Network Video Solutions deliver on all counts.

Advanced Canon technology lets you maximize every opportunity. Our Network Video Solutions are operated – on site or remotely – with intuitive single-point-of-management convenience. They come fully Web-enabled for easy networking across LAN or WAN environments. And proprietary Canon breakthroughs like DIGIC NET allow for quality video capture and streaming at full 30fps. These advances, and so many more – like ingenious power options for reducing installation costs – all make Canon your reliable, flexible, compatible choice for Network Video Solutions.



Canon Cameras: An Eye on Performance

At the heart of each Canon Network Video Solution is a powerful Canon camera. These models represent technology's finest for commercial and industrial applications. And with world-class Canon engineering and design, form and function come together to achieve unparalleled results. Compact bodies with stylish designs assure unobtrusive installation. Super-wide-angle lenses, enhanced by the industry's most powerful zooms plus auto-focus help you increase clarity and coverage while deploying less gear. Powerful software solutions put more control in your hands. Our lineup of Network Video Solutions covers every need.

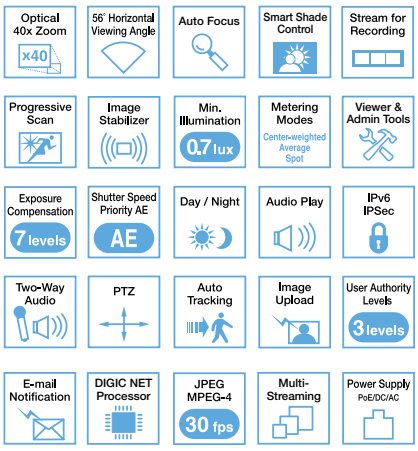
VB-C60

PTZ Network Camera

Item Code: 2812B004AA

The VB-C60 is an extremely flexible and versatile camera, capable of capturing, recording, and distributing video for a wide range of purposes both indoors and outdoors.

- 40x Optical Zoom – Industry's Most Powerful
- 56° Field-of-View Wide-Angle Lens
- Full 360° Horizontal Coverage with Extreme Pan & Tilt
- Fast, Pinpoint Auto-Focus
- PoE (Power over Ethernet)
- Auto Day and Night Mode
- 7 Levels of Exposure Compensation
- Motion Detection and Auto-Tracking
- Powerful DIGIC NET Processor
- Two-Way Audio Capability
- Simultaneous JPEG & MPEG-4 Video Streaming at Full 30fps
- Smart Shade Control



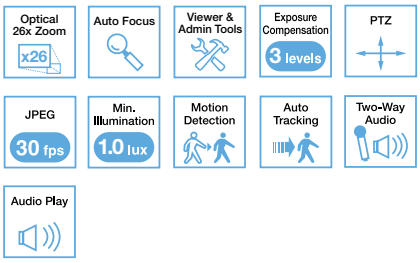
VB-C50i/R

PTZ Network Camera

Item Code: VB-C50i 9781A008AA / VB-C50iR 9782A007AA

One of Canon's most advanced network cameras, the VB-C50i combines a high-precision PTZ (pan, tilt, zoom) camera and a built-in Web and FTP server – all in one sleek, attractive, compact unit. The VB-C50iR is the ceiling-mounted version of the VB-C50i.

- 26x Optical Zoom
- Low-Light Sensitivity – Color Imaging with Only 1 Lux Illumination
- Infrared Image Capture in Night Mode
- Motion Detection and Auto-Tracking
- Preset Tours For Auto-Movement Through 20 Viewing Angles
- Built-In Network Camera Server
- Two-Way Audio Capability (with optional VB-EX50)



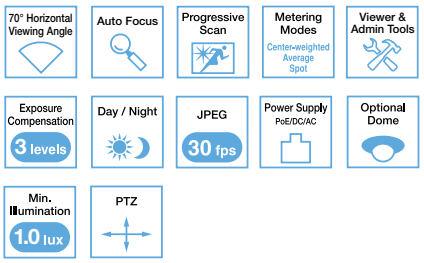
VB-C300

Wide-Angle PTZ Network Camera

Item Code: 1867B002AA

The VB-C300 offers wide coverage and superior image quality to meet the needs of diverse applications. It's ideal for on-site or remote monitoring in tight spaces as well as comprehensive surveillance of large sites.

- 70° Wide-Angle AF Lens
- 2.4x Optical Zoom / 4x Digital Zoom
- Low-Light Sensitivity – Color Imaging with Only 1 Lux Illumination
- Full 360° Horizontal Coverage with Extreme Pan & Tilt
- Auto Day and Night Mode
- Fast, Pinpoint Auto-Focus
- PoE (Power over Ethernet)
- Built-In Network Camera Server
- Two-Way Audio Capability



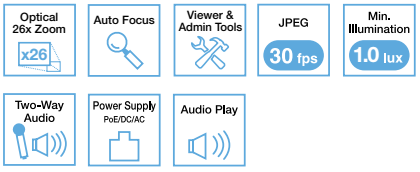
VB-C50FSi

Fixed Network Camera

Item Code: 0777B002AA

For monitoring applications that require high image quality and clarity, the VB-C50FSi is a powerful, cost-effective solution. It's ideal for securing building entrances, ATMs, and other locations that don't require pan and tilt control.

- 26x Optical Zoom/12X Digital Zoom
- Low-Light Sensitivity – Color Imaging with Only 1 Lux Illumination
- PoE (Power of Ethernet)
- Motion Detection
- 10 Zoom Presets
- Built-In Network Camera Server
- Two-Way Audio Capability (with optional VB-EX50)



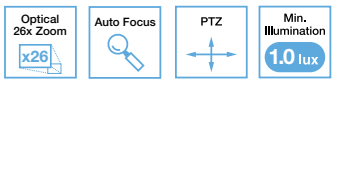
VC-C50i/R

Analog PTZ Network Camera

Item Code: VC-C50i 0667B001 / VC-C50iR 0668B001

The VC-C50i is an analog PTZ camera that is equipped with high magnification, high sensitivity and night mode capability. It is a high-performance camera specifically designed to improve monitoring capability in environments with poor lighting and low-visibility conditions. The VC-50iR is the ceiling-mounted version of the VC-C50i.

- 26x Optical Zoom/12X Digital Zoom
- F1.6 Large Aperture Lens
- Low-Light Sensitivity – Color Imaging with Only 1 Lux Illumination
- Infrared Image Capture in Night Mode
- Captures Black & White Images Even in Complete Darkness
- Control via RS-232
- Composite and S-Video Output



VK Network Video Monitoring & Recording Software

Canon offers software to accommodate the needs of any size operation. For large-scale, multi-location operations requiring the use of up to 64 of our network cameras, choose the VK-64. For smaller operations, our VK-16 software offers all of the same capabilities, but does so for up to 16 network cameras. Our VK-Lite software, which provides basic monitoring for no more than four cameras, comes bundled with the VB-C60.

Versatile Features for Viewing Excellence

These features are shared by many of our Network Video Solutions. Be sure to refer to the chart in the back for a detailed listing of specifications.

GENUINE CANON OPTICS

Optical 40x Zoom x40
Optical 26x Zoom x26

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Industry's Most Powerful Zooms

With all of our network cameras, you get the superior optics that have become synonymous with the Canon brand. For optimal monitoring and recording of key moments and details at faraway distances, we offer a wide range of zoom lenses on our network cameras, from the powerful 26x on the VB-C50i/R, VB-C50FSi and VC-C50i/R, to the industry's most powerful 40x on the VB-C60.

1x wide angle

26x zoom

40x (maximum) zoom

Horizontal Viewing Angle

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Industry's Widest Lenses

Featuring the industry's widest angle lenses for PTZ network video cameras, Canon cameras have horizontal fields of view ranging from 56˚ on the VB-C60 to an astonishing 70˚ on the VB-C300. The broadened visibility offered by these wide lenses ensures expanded monitoring of your location site.

Auto Focus

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Auto Focus

Canon's Auto Focus system achieves smooth and immediate focus while maintaining edge-to-edge tonal accuracy and clarity throughout the entire zoom range. The VB-C60 is equipped with an advanced Auto Focus feature that accomplishes this even faster.

IMAGING TECHNOLOGY

Backlight Compensation with Smart Shade Control

Original

Smart Shade Control

Smart Shade Control

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Smart Shade Control

If the background of an image is too bright to discern the main subjects, you can adjust the contrast of the darker areas to make it easier to see. Unlike backlight compensation, Smart Shade Control adjusts darker areas of the image while maintaining the brightness of the brighter areas, so the background image remains clear without being "blown-out."

SSC
Smart Shade Control

Progressive Scan

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Progressive-Scan CCD Video

Progressive-Scan CCD technology allows for the capture of noiseless, high-quality video of moving subjects. Genuine Canon optics combined with high-sensitivity CCD provides optimal contrast, and primary-color CCD also delivers excellent colors and tonal quality, even in low light.

Interlaced Scan

Progressive Scan

Image Stabilizer

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Image Stabilization

Canon's Image Stabilization feature effectively works to compensate for image blur caused by shaking of camera when mounted on ceilings, poles, or other places subject to vibration.

Original

Image Stabilization

Metering Modes
Center-weighted Average Spot

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Three Metering Modes

In order to more accurately set camera exposures, Canon offers three selectable metering modes for measuring the brightness (amount of light) of subjects – a first in this class of network cameras. Choose from "Average", "Center-Weighted" or "Spot", depending on given conditions.

Exposure Compensation 7 levels

VB-C60

Exposure Compensation 3 levels

VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Multi-Level Exposure Compensation

For automatic exposure compensation, Canon technology offers distinct levels of correction ranging from three with the VB-C50i/R, VB-C300, VC-C50FSi and VC-C50i/R, to seven with the VB-C60. In addition to positive correction for backlit situations, select models provide negative correction, as well, for overly bright conditions. The installer can also set the white balance and the light source to perfectly match the environment.

Shutter Speed Priority AE

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Shutter Priority Auto Exposure

This function allows you to select a desired shutter speed, and the camera will then set the matching aperture value for the proper exposure. If you change the shutter speed, or the light level changes, the camera adjusts the aperture value automatically. This is ideal for fast-moving subjects, such as cars in motion, where setting a faster shutter speed will ensure blur-free capture.

Min. Illumination 0.7 lux

VB-C60

Min. Illumination 1.0 lux

VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Exceptional Low-Light Performance

Canon's bright lenses combined with high-sensitivity CCD technology, as well as Canon's proprietary imaging engine, all work together to provide clear visibility of subjects and surroundings even in low-light conditions. In fact, the VB-C60 provides clear color images in just 0.7 lux of available light, and the VB-C50i/R, VB-C300, VB-C50FSi and VC-C50i/R in 1 lux.

Original | Low-light Performance

Day / Night

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Auto Day/Night Capability

The Auto Day/Night feature switches settings automatically when needed for dark nighttime conditions. You can select up to five different brightness levels for Auto Day/Night switching, delivering more options for a wider range of environments. Select models are equipped with infrared technology, which allows for exceptional nighttime capture. Day/Night switching is done manually on the VB-C50i/R, VB-C50FSi and VC-C50i/R.

CAMERA CONTROL & FUNCTIONALITY

PTZ

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

PTZ – Pan/Tilt/Zoom

PTZ capability moves the camera right-to-left and up-and-down, making it easy to adjust the angle of view. In many cases, this expands coverage to a full 360º horizontal field of view (pan range ±170º).* The camera's viewing angle can be easily adjusted via software, and images remain exceptionally clear and blur-free during PTZ movement.

*VB-C50i/R and VC-C50i/R have a pan range of ±100º.

Auto Tracking

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Motion Detection with Subject Auto-Tracking

Motion detection capability enables you to set up to four motion detection areas, each with varying levels of sensitivity. When subject motion (a change in pixels) is detected, the camera can be set to pan and tilt to follow the subject's movement. Pre-recorded audio can also be set to playback on cue. The VB-C50FSi has motion detection capabilities without the auto-tracking feature.

Sensor & Alarm Trigger

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Sensor & Alarm Trigger

The VB-C60 and VB-C300 are equipped with built-in terminals for connecting various external devices such as sensors and alarms. An optional adapter is needed to perform this function with the VB-C50i/R and VB-C50FSi.

Image Upload

VB-C60

E-mail Notification

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Image Upload & E-mail Notification

When a subject's motion is detected, or if an external sensor is triggered, the VB-C60, VB-C50i/R, and VB-C50FSi can automatically send the images to any desired location via e-mail—even to a mobile phone, PDA, or other portable e-mail address. The VB-C60 can also be set to upload these images to a website. With all four cameras, pre-recorded audio can be set to playback on site.

Two-Way Audio

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi

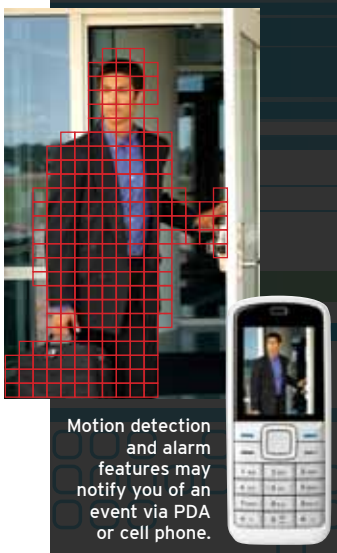
Audio Play

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Multiple Audio Functions

Advanced audio features allow for real-time audio transmission, both to and from an authorized network PC. Full duplex, two-way audio allows administrators who are logged into the Administration Viewer interface to listen in on a camera site, make announcements to that scene, or do both at the same time. Pre-recorded audio can also be set to playback when triggered by an event, such as motion detection. An optional adapter is needed to accomplish this with the VB-C50i/R and VB-C50FSi.

e-mail >>> alarm



Motion detection and alarm features may notify you of an event via PDA or cell phone.

DiGIC NET

DATA ENCODING & TRANSMISSION

DIGIC NET Processor

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Powerful DIGIC NET Processor

DIGIC NET is a powerful, proprietary, hardware-based compression engine that performs all image processing and encoding. Many cameras process or encode images via PC software, which expends extensive CPU capacity and results in lowered frame rate. With DIGIC NET, each step of the imaging process – capturing, processing, encoding and transmitting – uses virtually zero CPU capacity.

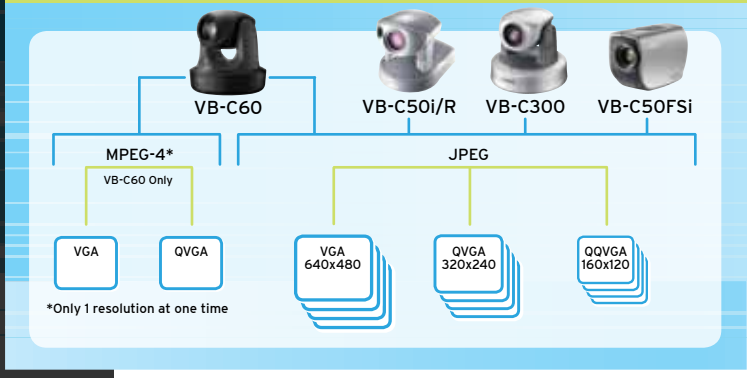
Simultaneous Data Distribution

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Simultaneous Data Distribution

With simultaneous data distribution, image capture can be delivered in both M-JPEG and MPEG-4 video, and in high-quality VGA size (640 x 480 pixels), all at the maximum frame rate of 30fps. The high-image quality of M-JPEG video is ideal for live monitoring, while the MPEG-4 format is better suited for recording, due to its smaller file size and lighter network load. Up to 30 simultaneous users can access and view video images at the same time.

POWERFUL DATA TRANSMISSION CAPABILITIES



Multi-Streaming

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Multi-Streaming

Cameras with the multi-streaming feature can distribute JPEG images in three sizes simultaneously. The smallest size, 160 x 120, is used for cell phones or PDAs. The 320 x 240 middle size proves useful when monitoring multiple cameras on a single screen. And the larger size, 640 x 480, is ideal for storing high-resolution images.

Stream for Recording

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Recorded Stream Functionality – Only available with Canon

In addition to basic live video streaming, Canon lets you stream recorded video. This feature is useful when recorded images are viewed after the fact (rather than live), because it greatly minimizes the chance of experiencing dropped frames due to data transmission interruptions caused by network congestion. This feature lets the camera buffer, save, and restore missing frames (up to 10fps, up to 1 minute) when the congestion is alleviated. When recorded video is later played back, all frames are included at the proper frame rate.

SECURITY

IPv6 IPSec

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

IPsec Support

IPsec, or IP security, is a set of protocols for encrypting data streams to secure IP communications. IPsec secures the data flow to and from the camera, and permits access only to authorized users.

User Authority Levels 3 levels

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

User Access Restriction

User access restriction provides three levels of user access to ensure maximum but customizable security. In addition to the Administrator, who has control over the entire system, other users on the system can be divided into registered (authorized) users and general (anonymous) users. Each type of user has access to different monitoring functions and camera controls as specified by the Administrator. Since the general user level doesn't require registration, it is well-suited for Web casting applications.

CONNECTIVITY & INSTALLATION

Power Supply PoE/DC/AC

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

PoE (Power over Ethernet)

Canon's Power over Ethernet (PoE) technology with IEEE802.3af Compliance allows the use of a single LAN cable to both power the camera and transfer video and audio data when connected to a PoE midspan or switch. Because a power cable is not required, the camera can be installed at sites without readily accessible AC outlets. And, because PoE eliminates the cost of running expensive power cabling to the device, installation costs are kept to a minimum.

Reverse Camera Versions

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Built-in Reverse Camera Modes

The VB-C60 and VB-C300 have a built-in reverse mode, giving the installer more flexible options for achieving optimal coverage when working in challenging physical locations. The VB-C50i and VC-C50i both come in a convenient "R" version for reverse mounting. Canon also offers a host of mounting options and accessories to facilitate installation for its entire line of Network Video Solutions.

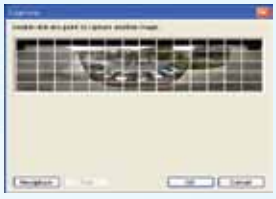
BUNDLED SOFTWARE

VB ADMINISTRATION TOOLS

Schedule Setting Tool

Motion Detecting Setting Tool

Panorama Creation Tool



View Restriction Setting Tool

Viewer & Admin Tools

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

Viewer and Administration Tools

The proprietary software engines that drive Canon's Network Video Solutions are designed to maximize user control and to customize camera operation, addressing the unique surveillance and recording challenges of every application. Canon offers a wide range of software options to satisfy your diverse image capture requirements. Some come packaged with our cameras, and others can be integrated separately.

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

- Panorama Image Creation Tool – This useful tool creates a single image that displays the full field of view of the camera's capture area.

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

- View Restriction Tool – Set restrictions on the pan/tilt/zoom range (VB-C60 and VB-C50i/R) or zoom range (VB-C50FSi) that is accessible by viewers.

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

- Preset Setting Tool – Administrator can appoint up to 20 preset viewing angles. Once registered, clicking on a preset automatically moves the camera to a desired position for immediate monitoring.*

  *The VB-C50FSi only offers 10 zoom presets.

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

- Schedule Setting Tool – Provides the ability to set up Timer, Motion Detection, Night Mode, External Device Input, and External Device Output services to automatically perform on a specified day of the week or at a certain time of day.

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

- Log Viewer – This function gives the Administrator greater control by allowing for viewing and searching of the camera activity log file.

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

- Viewer for Administrators – Features special privilege functions such as exclusive access to camera control functions, and external device and motion detection operation.

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

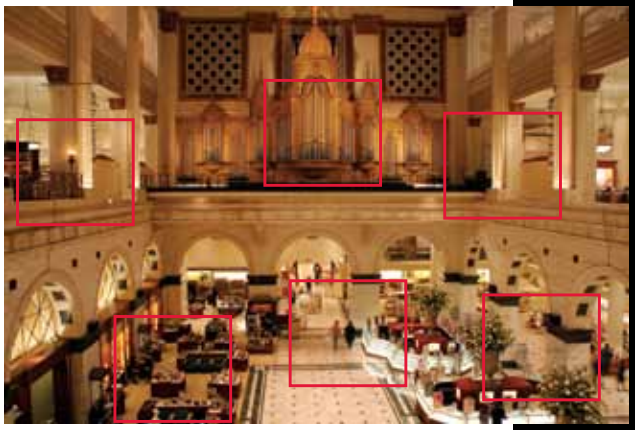
- NC Viewer – Permits viewing of live video images from the network camera and features an easy-to-use interface for controlling camera functions such as PTZ. There are two viewing modes, one for a regular user and one for an administrator.

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

- VK-Lite v2.0 Software – Gives administrator the ability to monitor, record, and play back images from up to four cameras on a single screen. This software is included with the VB-C60.

VB-C60
VB-C50i/R
VB-C300
VB-C50FSi
VC-C50i/R

- Preset Tour Capabilities – Lets administrator establish a tour of preset locations with specified times and varying intervals for the system to cycle through.



Smart Software; Brilliant Capabilities.

Camera Control

Recording Settings

VK-64 Network Video Monitoring & Recording Software

Item Code: 3099B001

For large-scale, multi-location operations in which you can utilize up to 64 Canon network cameras, choose our VK-64 Network Video Monitoring & Recording Software. In addition to a variety of easy-to-use image and camera control functions, you'll find many unique features that set Canon software apart.

Camera Control

Take control of each camera directly from the live video window, or use the convenient camera control panel for quick and easy control.

Smart Shade Control

Smart Shade Control enables you to fine-adjust background brightness and contrast, so you can see your main subjects more clearly in the foreground.

Remote Monitoring & Recording

Using an IP network, you can record captured video from a remote camera server, and then use this recorded content as a crucial off-site backup.

Customizable Viewing Screens

Customize the quantity, size and placement of image windows in the image display area to set up viewing formats that best suit your needs. (See image on page 11.)

Simultaneous Image Display & Playback

With an SXGA monitor, up to 35 screens of live or recorded images can be displayed or played back simultaneously.

VK-16 Network Video Monitoring & Recording Software

Item Code: 3099B002

For smaller operations, there's our VK-16 Network Video Monitoring & Recording Software. It covers all the functionality of our VK-64 solution, but does so for up to 16 network cameras only.

VK-Lite Network Video Monitoring & Recording Software

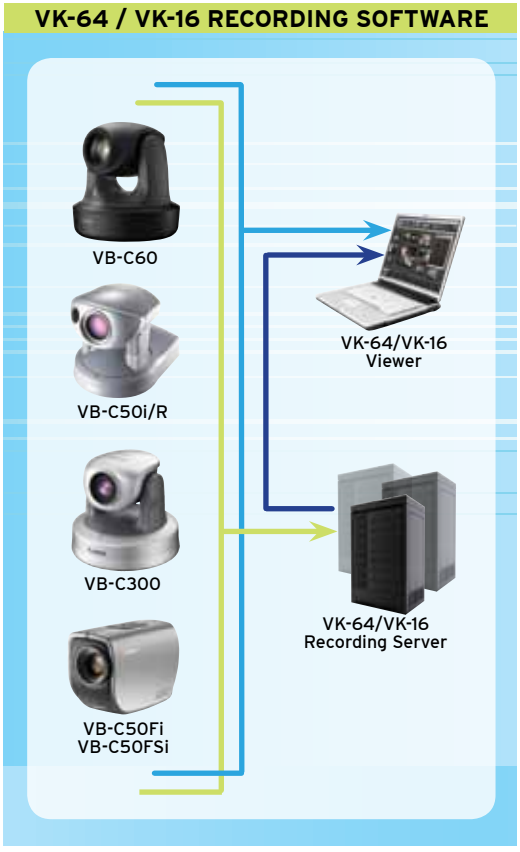
Item Code: 3331B001

With setups requiring basic monitoring, recording and playback capability for no more than four network cameras, Canon offers the VK-Lite Network Video Monitoring & Recording Software. VK-Lite comes bundled with our VB-C60 camera.

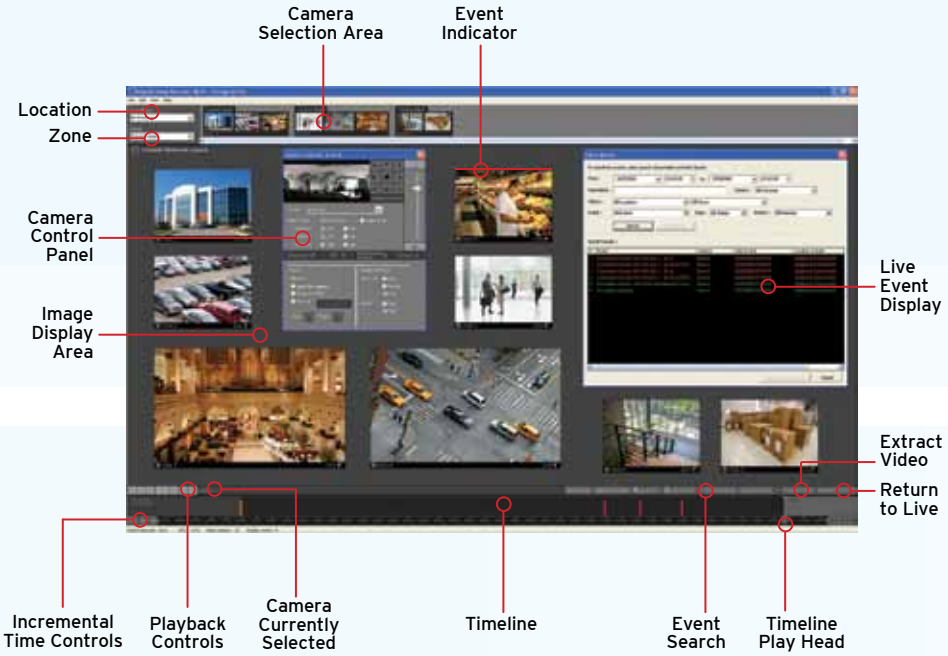
VK Viewer Network Video Monitoring Software

Item Code: 1-license 3099B003 / 5-license 3099B004

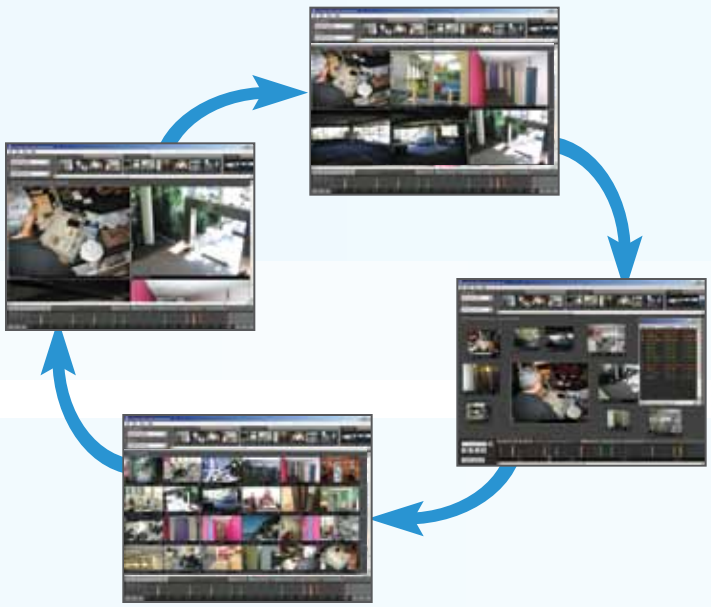
For those that only require viewing capability, the VK Viewer displays exactly what you need to see, allowing you to monitor several cameras on one screen. Size and arrange multiple video windows for easy monitoring. Can also be used to access VK-64/16 storage servers.



CUSTOMIZABLE VIEWING SCREENS



AUTOMATIC LAYOUT SWITCHING



CAPACITY CHART

No. of Cameras	Image Size	Frame Size	Network Traffic		Storage Volume	
			fps	capacity	1 day	1 month
1	320x240	15kb	1fps	120kbps	1GB	37GB
			5fps	600kbps	6GB	187GB
	640x480	50kb	1fps	420kbps	4GB	122GB
			5fps	2Mbps	20GB	608GB
10	320x240	15kb	1fps	1.2Mbps	12GB	373GB
			5fps	6Mbps	62GB	1,866GB
	640x480	50kb	1fps	4Mbps	41GB	1,216GB
			5fps	20Mbps	203GB	6,081GB

Choose Canon and Witness the Difference.

Clear, crisp video capture for monitoring, recording and playback. Superior camera and image management for maximum system performance. Remote or onsite viewing and control of multiple images at once. Choose Canon Network Video Solutions and witness the difference yourself.

Canon

Extend System Value with Flexible Options & Accessories

Every application poses unique installation and system integration challenges, but Canon has prepared for all contingencies with an expansive set of options and accessories. Talk about flexibility. Installers will find all they need and more to ensure smooth, hassle-free, cost-efficient installations – and that includes a knowledgeable technical support team that backs up every system.

EXPANSION BOX

VB-EX50 Multi Terminal Module

Item Code:
9783A003AA

The Multi Terminal Module VB-EX50 enables connection of various types of external devices to the VB-C50i/R and VB-C50FSi.

- Audio In for microphone
- Audio Out for speakers
- Video In/Out (BNC) for analog video cameras already in use
- External Sensor In/Out for sensors and alarms

WIDE CONVERTER

WL-37 Wide Converter Lens

Item Code:
4674A001AA

A wider angle of image capture can be achieved by attaching the optional Wide Converter WL-37 to the VB-C50i/ VB-C50FSi. This option is useful when the camera is installed too close to the area that requires monitoring.

- Lens magnification: 0.74x
- Expands field-of-view to 65°

For safety reasons, this optional item cannot be used with ceiling-mounted models

AC ADAPTERS

PA-V17 AC Adapter

Item Code:
2245B001AA

AC adapter for the VB-C60 and VB-C300.

- Input: 100-240 V AC 50/60Hz
- Output: 13V DC 1.8 A (max.)
- Dimension: 2.28in. x 4.65in. x 0.98in. (W x D x H)
- Weight: Approx. 0.47 lb.

PA-V16 AC Adapter

Item Code:
6588A001AA

AC adapter for the VB-C50i/R, VB-C50FSi and VC-C50i/R.

- Input: 100-240 V AC 50/60Hz
- Output: 13V DC 1.8 A (max.)
- Dimension: 2.28in. x 4.65in. x 0.98in. (W x D x H)
- Weight: Approx. 0.50 lb.

DOMES FOR VB-C60

VB-RD51S-S Indoor Dome Housing (Smoked)

Item Code:
2823B001AA

The optional ultra-compact smoked dome housing designed for the VB-C60 can be used for indoor recessed ceiling installation. The dome can help minimize the appearance of the camera, and protect the camera from dust. With a diameter of just 5.24 inches, the new domes still allow for smooth full-range PTZ movement. The smoked dome is approximately 50% transparent compared to the clear dome.

- User Environment:
  Temperature: 14 to 122°F
  Humidity: 20 to 85% RH (no condensing)
- Dimensions:
  Entire Unit: 8.27 x 7.0in. (D x H)
  Dome Portion: 5.24 x 3.7in. (D x H)
- Weight: 1.151 lb. (excluding the camera)

VB-RD51S-C Indoor Dome Housing (Clear)

Item Code:
2823B002AA

The optional ultra-compact clear dome housing designed for the VB-C60 can be used for indoor recessed ceiling installation. The dome can help minimize the appearance of the camera, and protect the camera from dust. With a diameter of just 5.24 inches, the new domes still allow for smooth full-range PTZ movement. The clear dome is 100% transparent.

- User Environment:
  Temperature: 14 to 122°F
  Humidity: 20 to 85% RH (no condensing)
- Dimensions:
  Entire Unit: 8.27 x 7.01in. (D x H)
  Dome Portion: 5.24 x 3.78in. (D x H)
- Weight: 1.151 lb. (excluding the camera)

DOMES FOR VB-C300

VB-RD41S-S Indoor Dome Housing (Smoked)

Item Code:
2112B001AA

The optional ultra-compact smoked dome housing designed for the VB-C300 can be used for indoor recessed ceiling installation. The dome can help minimize the appearance of the camera, and protect the camera from dust. With a diameter of just 4.33 inches, the new domes still allow for smooth full-range PTZ movement. The smoked dome is approximately 50% transparent compared to the clear dome.

- User Environment:
  Temperature: 32 to 113°F
  Humidity: 20 to 85% RH (no condensing)
- External Dimensions:
  Entire Unit: 7.20 x 5.86in. (D x H)
  Dome Portion: 4.33 x 3.26in. (D x H)
- Weight: 0.82 lb. (excluding the camera)

VB-RD41S-C Indoor Dome Housing (Clear)

Item Code:
2112B004AA

The optional ultra-compact clear dome housing designed for the VB-C300 can be used for indoor recessed ceiling installation. The dome can help minimize the appearance of the camera, and protect the camera from dust. With a diameter of just 4.33 inches, the new domes still allow for smooth full-range PTZ movement. The clear dome is 100% transparent.

- User Environment:
  Temperature: 32 to 113°F
  Humidity: 20 to 85% RH (no condensing)
- External Dimensions:
  Entire Unit: 7.20 x 5.86in. (D x H
  Dome Portion: 4.33 x 3.26in. (D x H)
- Weight: 0.82 lb. (excluding the camera)

COVER FOR VB-C60

SS60-B-VB Ceiling Mount Cover

Item Code:
3121B002AA

The SS60-B-VB ceiling mount cover is designed to fit around the VB-C60. The ceiling mount cover helps to minimize the appearance of the camera.

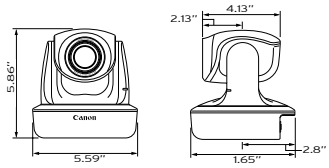
- Dimensions: 7.72in. x 1.61in. (H)
- Weight: 0.598 lb. (excluding the camera)

ACCESSORY COMPATIBILITY CHART

	VB-C60	VB-C50i	VB-C50iR	VB-C300	VB-C50FSi	VC-C50i	VC-C50iR
Wide Converter Lens WL-37		•			•	•	
Multi-Terminal Module VB-EX50		•	•		•		
AC Adapter PA-V17	•			•			
AC Adapter PA-V16		•	•		•	•	•
Indoor Recessed Dome (Smoked) VB-RD51S-S	•						
Indoor Recessed Dome (Clear) VB-RD51S-C	•						
Indoor Recessed Dome (Smoked) VB-RD41S-S				•			
Indoor Recessed Dome (Clear) VB-RD41S-C				•			
Ceiling Mount Cover SS60-B-VB	•						

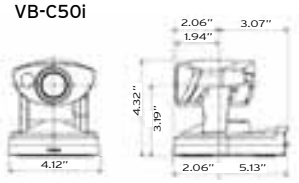
MEASUREMENT CHART

VB-C60

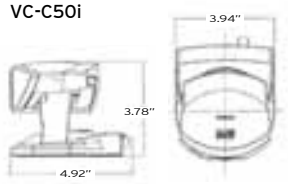


VB-C50FSi

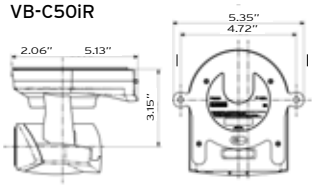
VB-C50i



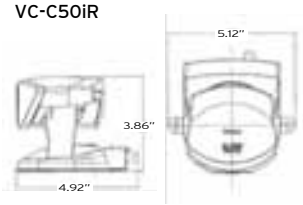
VC-C50i



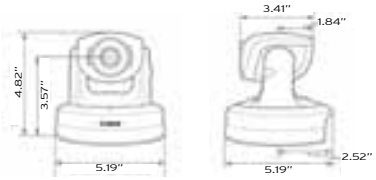
VB-C50iR



VC-C50iR

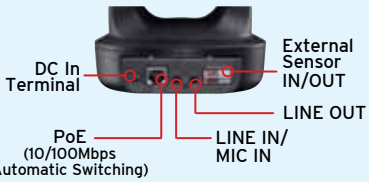


VB-C300

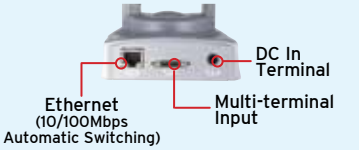


CONNECTIVITY

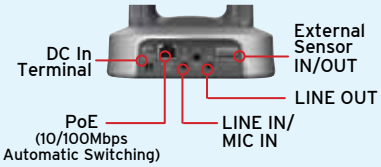
Rear view of VB-C60



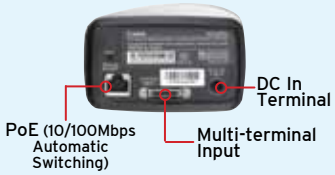
Rear view of VB-C50i



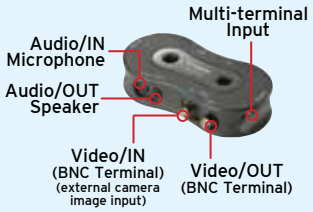
Rear view of VB-300



Rear view of VB-C50FSi



VB-EX50 Multi-Terminal



Specifications

NETWORK CAMERAS

	Specs	VB-C60 ITEM CODE: 2812B004AA	VB-C50i/VB-C50iR ITEM CODE: 9781A008AA / 9782A007AA	VB-C300 ITEM CODE: 1867B002AA	VB-C50FSi ITEM CODE: 0777B002AA
CAMERA UNIT	Image Sensor	1/4-inch CCD (primary color filter)	1/4-inch CCD (complementary filter)	1/4-inch CCD (primary color filter)	1/4-inch CCD
	No. of Pixels	Effective 310k pixels	Effective 340k pixels	Effective 340k pixels	Effective 340k pixels
	Scanning Method	Progressive	Interlace	Progressive	Interlace
	Lens	40x optical zoom lens with AF (digital 4x)	26x optical zoom lens	2.4x optical zoom lens with AF (digital 4x)	26x optical zoom lens with AF (digital 12x)
	Focal Length	f=3.4mm (W) ~ 136.0mm (T)	f=3.5mm (W) ~ 91.0mm (T)	f=3.0mm (W) ~ 7.2mm (T)	f=3.5mm (W) ~ 91.0mm (T)
	F-number	F1.6 (W) ~ F5.6 (T)	F1.6 (W) ~ F4.0 (T)	F2.0 (W) ~ F3.4 (T)	F1.6 (W) ~ F4.0 (T)
	Angle of View	Pan Range: 55.8° (W) ~ 1.6 (T) Tilt Range: 43.3° (W) ~ 1.2 (T)	Pan Range: 42.0° (W) ~ 1.7° (T) Tilt Range: 31.5° (W) ~ 1.2° (T)	Pan Range: 70.8° (W) ~ 29.6 (T) Tilt Range: 51.6° (W) ~ 22.1 (T)	-
	Day mode/ Night mode	Switch between Auto/Manual	Manual only	Switch between Auto/Manual	Manual only
	Min. Subject Illumination	Day mode: 0.7lux (F1.6, color, 1/30 sec.) Night mode: 0.2lux (F1.6, monochrome, 1/30 sec.) with Indoor dome housing VB-RD51S-S (smoked) Day mode: 1.4lux (F1.6, color, 1/30 sec.) Night mode: 0.4lux (F1.6, monochrome, 1/30 sec.)	Day mode: 1.0lux (F1.6, color, Interlace 1/30 sec.) Night mode: 0.35lux (F1.6, monochrome, Interlace 1/30 sec.) with a built-in IR light: 0lux (F1.6, monochrome, Interlace 1/30 sec.)	Day mode:1.0lux (F2.0, color, 1/30 sec.) Night mode: 0.25lux (F2.0, monochrome, 1/30 sec.) with Indoor dome housing VB-RD41S-S (smoked) Day mode: 2.0lux (F2.0, color, 1/30 sec.) Night mode: 0.5lux (F2.0, monochrome, 1/30 sec.)	Day mode:1.0lux (1/30 sec.) Night mode: 0lux
	Focus	Auto/ One-shot AF/ Manual/ Fixed focus at infinity (for dome use)	Auto/Manual	Auto/ Auto (for dome use)/ Fixed focus at infinity/ Manual/ One-shot AF	Auto / Manual
	Focus Range	Day mode: (W) 11.8in. ~ ∞ / (T) 59in. ~ ∞ Night mode: (W) 11.8in. ~ ∞ / (T) 59in. ~ ∞ (with IR light of Night mode: (W) 19.7in. ~ ∞/ (T) 70.9in. ~ ∞)	Day mode: (W) 3.9in. ~ ∞, (T) 63in. ~ ∞ Night mode (with IR light): (W) 0.79in. ~ ∞ (T)90.6in. ~ ∞	Day mode: (W) 11.8in. ~ ∞ / (T) 11.8in. ~ ∞ Night mode: (W) 11.8in. ~ ∞ / (T) 11.8in. ~ ∞ (with IR light of Night mode: (W) 23.6in. ~ ∞/ (T) 23.6in. ~ ∞)	Day mode: (W) 3.9in. ~ ∞ / (T63in. ~ ∞ Night mode: (W) 0.79in. ~ ∞ / (T) 90.6in. ~ ∞
	Shutter Speed	1/1, 1/2, 1/4, 1/8/, 1/15, 1/30, 1/50, 1/60, 1/100, 1/120, 1/150, 1/500, 1/1000, 1/2000, 1/4000, 1/8000 sec.	1/60, 1/100	1/60, 1/100	-
	White Balance	Auto/One-shot/Preset/Manual	TTL system, Auto	TTL Auto/One-shot/Preset/Manual	TTL system / Auto
	Optical Measurement System	3 options (Center-weighted metering mode/Average metering mode/Spot metering mode)	-	-	-
	Exposure Compensation	7 levels	3 levels	3 levels	-
	Camera Shade Correction	7 levels	-	-	-
	Image Stabilizer	Electric (ON1/ON2/OFF)	-	-	-
	Pan Angle Range	340°(±170°)	200° (±100°) / 340° (±170°)	340°(±170°)	-
	Tilt Angle Range	Upright: 115° (-25° ~ 90°) / Ceiling-mount: 115° (-90° ~ 25°)	120° (-30°~ 90°) / 100° (-90°~ 10°)	Upright: 115°(-25°~90°) / Ceiling-mount: 115°(-90°~25°)	-
	Moving Rate	Pan: Max.150°/sec. Tilt: Max. 150°/sec.	Pan: Max. 90°/sec. Tilt: Max. 70°/sec.	Pan: Max. 90°/sec. Tilt: Max. 70°/sec.	-
SERVER	Video Compression Method	JPEG (for video: Motion-JPEG) / MPEG-4 Simultaneous transmission is available	JPEG (for video: Motion-JPEG)	JPEG (for video: Motion-JPEG)	JPEG (for video: Motion-JPEG)
	Output Image/Video Size	JPEG: 640×480/ 320×240/ 160×120 Multi-Size Distribution (distribute images in 3 sizes simultaneously) MPEG-4: 640×480/320×240 fixed size delivery	JPEG: 640×480/320×240/160×120 fixed size delivery	JPEG: 640×480/320×240/160×120 fixed size delivery	NTSC: 160x120/ 320×240/ 640x480
	Video Quality	JPEG/MPEG-4: 5 levels JPEG: can be set by each video size	JPEG: 10 levels	JPEG: 5 levels	JPEG: 10 levels
	Frame Rate	Motion-JPEG: 30 ~ 0.1fps MPEG-4: 30/15/10fps	Motion-JPEG: 30 ~ 0.1fps	Motion-JPEG: 30 ~ 0.1fps	30fps (640×480)
	Max. Frame Rate	Motion-JPEG: Max. 30fps (640×480) *1 MPEG-4: Max. 30fps (640×480) *1	Motion-JPEG: Max. 30fps (640×480)*	Motion-JPEG: Max. 30fps (640×480)*	-
	Simultaneous Client Access	Max. 30 clients (MPEG-4: Max. 10 clients)	Max. 50 clients	Max. 15 clients	Max. 50 clients
	Audio Compression Method	G.711 μ-law (64kbps)	μ-law PCM 8bit (Sampling frequency 8000Hz mono)	G.711 μ-law (64kbps)	μ-law PCM 8bit (Sampling frequency 8000Hz mono)
	Audio Communication	Full duplex (two way)	Full duplex (two way)	Full duplex (two way)	Full duplex (two way)
	Audio Play	Yes (up to 3 files; Max 30 sec. per file)	Yes (up to 8 files; Max 120 sec. per file)	-	Yes (up to 8 files; Max 120 sec. per file)
	Protocol	IPv4: TCP/IP, UDP, HTTP, FTP, SNMP (MIB2), SMTP (client), DHCP (client), DNS (client), ARP, ICMP, POP3, NTP, SMTP authentication, WV-HTTP (from Canon) IPv6: TCP/IP, UDP, HTTP, FTP, SNMP (MIB2), SMTP (client), DNS (client), ARP, ICMPv6, POP3, NDP, NTP, SMTP authentication, WV-HTTP (from Canon)	IPv4: TCP/IP, HTTP, DHCP, FTP, NTP	IPv4: TCP/IP, HTTP, DHCP, FTP, NTP	IPv4: TCP/IP, HTTP, DHCP, FTP, NTP
	IPsec	Available	-	-	-
	Camera Control	Pan, tilt, zoom, brightness, shutter speed, focus speed, view restriction, control time restriction, white balance, Smart Shade Control, image stabilizer	Pan, tilt, zoom, brightness, shutter speed, focus speed, view restriction, control time restriction	Pan, tilt, zoom, brightness, shutter speed, focus speed, view restriction, control time restriction	Zoom, brightness, shutter speed, focus speed, view restriction, control time restriction
	Connection Restrictions	Access control (user name & password)/ IP address control (IP4 only)/ Simultaneous client access control	Access control (user name & password)/ IP address control/Simultaneous client access control / Service time	Access control (user name & password)/ Simultaneous client access control	Access control (password), video connection time,service period, number of concurrent connections (max 50)
	Preset	Max. 20 positions	Max. 20 positions	Max. 20 positions	Yes (10 zoom positions)
	View Restriction	Available	Yes	-	-
	Motion Detection	Up to 4 detection areas can be set	Up to 4 detection areas can be set	-	Up to 4 detection areas can be set
	Upload of JPEG Image	FTP/ HTTP/ SMTP (e-mail) Camera's buffer memory for upload: Max. 6MB, Max. 10fps	Approx. 15MB (for still image & audio recording)	-	Approx. 15MB (for still image & audio recording)
	Event Notification	HTTP/ SMTP (e-mail)	SMTP (e-mail)	-	SMTP (e-mail)
INTERFACE	Network	1-RJ45 (100Base-TX; Auto/Full duplex/Half duplex)	1-RJ45 (100Base-TX/10Base-T; auto-negotiation)	1-RJ45 (100Base-TX/10Base-T; auto-negotiation)	1-RJ45 (100Base-TX/10Base-T; auto-negotiation)
	Video Input Terminal	-	1-BNC** (Composite Video)	-	1-BNC** (Composite Video)
	Video Output Terminal	-	1-BNC** (Composite Video)	1-Mini Jack Connector (Composite Video)	1-BNC** (Composite Video)
	Audio Input Terminal	1-Monoaural mini-jack connector** (LINE-IN -connect to amplifier microphone OR MIC IN -connect to microphone w/o amplifier)	1-Monoaural mini-jack connector** (MIC IN -connect to microphone w/o amplifier speakers***)	1-Monoaural mini-jack connector** (LINE-IN -connect to amplifier microphone)	1-Monoaural mini-jack connector (MIC IN -connect to microphone w/o amplifier speakers***)
	Audio Output Terminal	1-Monoaural mini-jack connector (LINE OUT -connect to amplifier speakers***)	1-Monoaural mini-jack connector** (LINE OUT -connect to amplifier speakers***)	1-Monoaural mini-jack connector (LINE OUT -connect to amplifier speakers***)	1-Monoaural mini-jack connector (LINE OUT -connect to amplifier speakers***)
	External Device I/O Terminal	2-Inputs 2-Outputs	2-Inputs* 3-Outputs*	2-Inputs 1-Output	2-Inputs* 3-Outputs*
OTHERS	Operating Environment	Temperature: 14 ~ 122°F (-10 ~ 50°C) Humidity: 20 ~ 85% RH (no condensation)	Temperature: 32 ~ 104°F (0 ~ 40°C) Humidity: 20 ~ 85% RH (no condensation)	Temperature: 14 ~ 113°F (-10 ~ 45°C) Humidity: 20 ~ 85% RH (no condensation)	Temperature: 32 ~ 104°F (0 ~ 40°C) Humidity: 20 ~ 85% RH (no condensation)
	Power Supply	Capable of PoE power supply via LAN connector (IEEE802.3af compliant) Capable of 24VAC, 12VDC, no polarity (using supplied two-screw connector) 100VAC – 240VAC, dedicated AC Adapter (PA-V17) (opt.)	100VAC – 240VAC, dedicated AC Adapter (PA-V16) (incl.)	Capable of PoE power supply via LAN connector (IEEE802.3af compliant) Capable of 24VAC, 12VDC, no polarity (using supplied two-screw connector) 100VAC – 240VAC, dedicated AC Adapter (PA-V17) (opt.)	Capable of PoE power supply via LAN connector (IEEE802.3af compliant) 100VAC – 240VAC, dedicated AC Adapter (PA-V16) (opt.)
	Power Consumption	with PoE: Max. approx.10W / with optional AC Adapter PA-V17: Max. approx.13W	Max. approx. 25W	with PoE: Max. approx.10W / with optional AC Adapter PA-V17: Max. approx.13W	Max. approx. 25W (when AC Adapter is used)
	Dimensions	5.59in. (W) x 5.59in. (D) x 5.87in. (H) Main unit only (excludes rubber foot)	VB-C50i: 4.1in. (W) x 5.1in. (D) x 4.3in. (H) Main unit only (excl. projections) VB-C50iR: 4.1in. (W) x 5.1in. (D) x 4.4in. (H) Main unit only (excludes projections)	4.79in. (W) x 5.19in. (D) x 5.12in. (H) Main unit only (excludes rubber foot)	2.6in. (W) x 5.28in. (D) x 3.81in. (H) Main unit only (excludes rubber foot)
	Weight	approx. 1.85 lb.	approx. 1.4 lb. (VB-C50iR: approx. 1.5 lb.)	approx. 1.85 lb.	approx. 1.17 lb.

*Function that increases the brightness of shaded subjects in an image with both dark and bright areas.
**Requires optional multi-terminal Module VB-EX50. ***Speakers with amplifier, which are sold separately, are necessary for audio playback.

NETWORK VIDEO MONITORING & RECORDING SOFTWARE

	Specs		VK-64 v2.0 ITEM CODE: 3099B001	VK-16 v2.0 ITEM CODE: 3099B002	VK-LITE ITEM CODE: 3331B001
Recording Features	Compatibility camera servers		VB-C60, VB-C300, VB-C50i/R, VB-C50FSi/Fi, VB-C10/R, VB150		VB-C60, VB-C300, VB-C50i, VB-C50iR, VB-C50FSi
	Recorded file format		M-JPEG, MPEG-4		M-JPEG
	Images input		64	16	4
	Image recording size		640 x 480, 320x240, 160 x 120		
	Recording medium		HDD		
	Recording time		999 weeks		12 weeks
	Recording frame rate		0.1 to 30 fps		0.1 to 5 fps
	Recording mode	Schedule	Yes		
		Sensor detection recording	Yes		No
		Motion detection recording	Yes		No
		Pre- event recording	Yes (maximum 30 seconds)		No
		Post-event recording	Yes (maximum 999 seconds)		No
Displayed Image Playback	Image screens		64		8
	Simultaneous playback during recording		Yes		
	Live image monitoring during recording		Yes		
	Rewind and fast forward speed		1x, 2x, 5x, 10x		
	Search function		Date, time, event		
Other	Live/image playback feature characteristics		Motion detection, event detection, control of output to external devices		
	Number of viewers connected simultaneously to the recording server		5		1
	Number of operating servers		10		
Recording Server Operating Environment	Recommended Conditions	CPU	P4 2.2 GHz + (3.4 GHz with MPEG-4)		P4 2.2 GHz+
		OS	Windows XP Professional (SP2), Operating System Windows Server 2003 Standard Edition (SP2), Windows Server 2003 R2 Standard Edition (SP2), Windows Vista Business/Enterprise/Ultimate (SP1)		
		Memory	1GB RAM (1.5 for more than 48 Cameras)	1GB RAM	1GB RAM
		Hard disk	20GB HDD or higher available disk space		
		Display	XGA (1024 x 768)		
Viewer Operating Environment	Minimum Conditions	CPU	Pentium III, 700 MHz or faster		
		OS	Windows Server 2003 Standard Edition, Windows Server 2003 Standard Edition (SP1), Windows 2000 Server (SP4), Windows 2000 Professional (SP4), Windows XP Professional (SP2) *1		
		Memory	256 MB RAM		
		Hard disk	2 GB HDD		
		Display	XGA (1024 x 768)		
	Recommended Conditions	CPU	P4 2.2 GHz + (3.4 GHz with MPEG-4)		P4 2.2 GHz+
		OS	Windows XP Professional (SP2), Operating System Windows Server 2003 Standard Edition (SP2), Windows Server 2003 R2 Standard Edition (SP2), Windows Vista Business/Enterprise/Ultimate (SP1)		
		Memory	1 GB RAM		
		Hard disk	2 GB HDD		
		Display	XGA (1024 x 768)		
Contents	Standard package (recording server+ viewer)		VK-64 v2.0	VK-16 v2.0	VK-Lite
	Additional viewer license		1 additional client (3099B003); 5 additional clients (3099B004)		-
	Additional license		-	-	1 additional client (331B001)

ANALOG CAMERAS

	Specs	VC-C50i ITEM CODE: 0667B001	VC-C50iR ITEM CODE: 0668B001
Camera Unit	Image Sensor	¼-inch CCD	
	No. of Pixels	Effective 340k pixels	
	Scanning Method	2:1 interlaced	
	Lens	26x optical zoom lens	
	Focal Length	f=.13in. to 3.38in.	
	F-number	F1.6 (W) ~ 4.0 (T)	
	Angle of View	-	-
	Day mode/ Night mode	-	-
	Min. Subject Illumination	Day mode: 1.0 lux (1/30 sec.) Night mode: 0 lux (with infrared light projection)	
	Focus	Auto/Manual W: 0.39in. to ∞ T: 62.9in. to ∞	
	Focus Range	-	-
	Shutter Speed	-	-
	White Balance	TTL auto/manual/one-push	
	Optical Measurement System	-	-
	Exposure Compensation	-	-
	Camera Shade Correction	-	-
	Image Stabilizer	-	-
	Pan Angle Range	+100°/-100°	+170°/-170°
	Tilt Angle Range	+90°/-30°	+10°/-90°
	Moving Rate	Pan: Max. 90°/sec. Tilt: Max. 70°/sec.	
Others	Operating Environment	Temperature: 32 ~ 104°F (0 ~ 40°C) Humidity: 20 ~ 85% RH (no condensing)	
	Power Supply	100VAC – 240VAC, dedicated AC Adapter (PA-V16) (incl.)	
	Power Consumption	Max approx. 13W	
	Dimensions	4.0in. (W) x 4.8in. (D) x 3.8in. (H)	5.1in. (W) x 4.8in. (D) x 3.9in. (H)
	Weight	approx. 14.7 oz.	approx. 17.2 oz.

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